

REMARKS

Claims 1-7 are pending in the above-identified application, of which claims 6 and 7 are withdrawn from consideration. Claims 1-5 were rejected. With this Amendment, claim 1 was amended,

Objection To Claims

Claims 1-5 were objected to because they were purportedly unclear. Applicant has amended the claims to address the Examiner's concerns and requests withdrawal of this objection.

35 U.S.C. § 102 Anticipation Rejection of Claims

Claims 1-3 and 5 were rejected under 35 U.S.C. § 102(e) as being anticipated by *Ohara* (U.S. Patent No. 6,924,553). Applicants respectfully traverse this rejection.

As amended, claim 1, recites "a first insulating layer", "a conductor portion formed on a surface of the first insulating layer", "a conductive projection joined to a top surface of the conductor portion which is formed on a surface of an insulating layer", and "a second insulating layer formed on the surface of the first insulating layer." Claim 1 further recites "a resin material extending from the conductive projection to another conductive projection" where a portion of the resin material surrounds "a root portion of the conductive projection in a ring form" and the resin material is "of a different material than the second insulating material."

Applicants submit that the cited art does not disclose the elements of claim 1. In particular, *Ohara* does not teach or suggest "a second insulating layer formed on the surface of the first insulating layer" and that a portion of a resin material surrounds "a root portion of the conductive projection in a ring form" where the resin material is "of a different material than the second insulating material." *Ohara*, by contrast, teaches only that an insulating layer may be

formed around and above a portion of a conductive pad. There is no disclosure of a separate resin material forming a ring around a conductive projection. Accordingly, Applicants respectfully submit that claim 1 is allowable over *Ohara*.

35 U.S.C. § 103 Obviousness Rejection of Claims

Claim 4 was rejected under 35 U.S.C. § 103(a) as being unpatentable over *Ohara* as applied to claim 1 above. Applicants respectfully submit that this claim is allowable for the same reasons as discussed for claim 1 above.

Claims 1-4 were also rejected under 35 U.S.C. 103(a) as being unpatentable over *Tanaka* (U.S. Patent No. 6,599,390). Claim 5 was rejected under 35 U.S.C. 103(a) as being unpatentable over *Tanaka* as applied to claim 1 above, and further in view of *Kurita et al.* (U.S. Patent No. 6,799,711). Applicants also respectfully traverse these rejections.

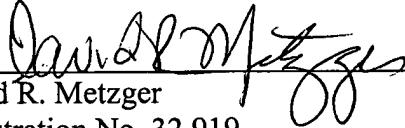
As noted above, claim 1 recites "a first insulating layer", "a conductor portion formed on a surface of the first insulating layer", "a conductive projection joined to a top surface of the conductor portion which is formed on a surface of an insulating layer", and "a second insulating layer formed on the surface of the first insulating layer." Claim 1 further recites "a resin material extending from the conductive projection to another conductive projection" where a portion of the resin material surrounds "a root portion of the conductive projection in a ring form" and the resin material is "of a different material than the second insulating material."

Tanaka does not disclose these elements, and in particular, does not teach or suggest "a resin material extending from the conductive projection to another conductive projection, a portion of the resin material surrounding a root portion of the conductive projection in a ring form, the resin material being of a different material than the second insulating material." Accordingly, Applicant submits that claim 1-4 are allowable over *Tanaka*.

In view of the foregoing, Applicants submit that the application is in condition for allowance. Notice to that effect is requested.

Respectfully submitted,

Dated: October 14, 2005

By: 
David R. Metzger
Registration No. 32,919
SONNENSCHNEIN NATH & ROSENTHAL LLP
P.O. Box 061080
Wacker Drive Station, Sears Tower
Chicago, Illinois 60606-1080
(312) 876-8000